#### PATENT COOPERATION TREATY

#### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 664981	FOR FURTHER ACTION	See item 4 below	
International application No.	International filing date (day/month/year) 03 March 2005 (03.03.2005)	Priority date (day/month/year) 04 March 2004 (04.03.2004)	
International Patent Classification (8th	01/10/23/		
Applicant TAKEDA PHARMACEUTICAL CO	MPANY LIMITED		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications	s relating to the following items:				
	Box No. I	Basis of the report				
-	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				
		Date of issuance of this report				
		29 November 2006 (29 11 2006)				

	Date of issuance of this report 29 November 2006 (29.11.2006)	_
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Yoshiko Kuwahara	
Facsimile No. +41 22 338 82 70	e-mail: pt07@wipo.int	
Form PCT/IB/373 (January 2004)		_

#### PATENT COOPERATION TREATY

INTE	THE RNATIONAL SEARCHING AUTHOR	ITY		MANA	
To:				PCT PCT	
	•		WI INTERNAT	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
				(PCT Rule 43bis.1)	
			Date of mailing		
Appli	cant's or agent's file reference		(day/month/year)		
66	4981		FOR FURTHER ACTION  See paragraph 2 below		
	ational application No.	International filing date (d	day/month/year)	Priority date (day/month/year)	
	T/JP2005/003621 ational Patent Classification (IPC) or both i	03.03.2005		04.03.2004	
Applic <b>TA</b>	ani KEDA PHARMACEUTICAL	COMPANY LIM	IITED	· · · · · · · · · · · · · · · · · · ·	
1.	This opinion contains indications relating	ig to the following items			
	Box No. I Basis of the op				
	Box No. II Priority	pition			
			_		
			rd to novelty, inventiv	e step and industrial applicability	
	Box No. V Reasoned state		(a)(i) with regard to no	ovelty, inventive step or industrial	
	Box No. VI Certain docum		sapporting such states	nent	
	Box No. VII Certain defects	in the international appli	cation		
	1 1	ations on the international			
2.	FURTHER ACTION				
	If a demand for international prelimin International Preliminary Examining Au	osen IPEA has notified th	e, this opinion will hat this does not apply he International Burea	be considered to be a written opinion of the where the applicant chooses an Authority other under Rule 66.1bis(b) that written opinions of	
	If this opinion is, as provided above, co-	nsidered to be a written of	opinion of the IPEA, office the expiration of the expiration of the date whichever ex	the applicant is invited to submit to the IPEA a f 3 months from the date of mailing of Form	
	For further options, see Form PCT/ISA/2	20.	my date, whichever ex	pires rater.	
3.	For further details, see notes to Form PC	I/ISA/220.			
ame a	nd mailing address of the ISA/JP	Ι Δ	uthorized officer		
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/003621

Box	No. I	Basis of this opinion
1.	With filed,	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
	[	a sequence listing
	[	table(s) related to the sequence listing
	b.	format of material
	[	in written format
<b>:</b>	[	in computer readable form
	c.	time of filing/furnishing
	ſ	contained in the international application as filed.
	Ī	filed together with the international application in computer readable form.
	ĺ	furnished subsequently to this Authority for the purposes of search.
	_ '	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	onal comments:

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/003621

1.	in a state of the	ent under R	ule 43bis.1(a)(i) with regard to possible	PCT/JP2005/00362	1
1.	Statement Citations and expl	anations su	ule 43bis.1(a)(i) with regard to novelty, inventive pporting such statement	e step or industrial applicability;	
	Novelty (N)				
	- J (- 1)	Claims	1-24		
		Claims			YE:
	Inventive step (IS)			N	ON
		Claims		_	
		Claims	1-24		ΈS
	Industrial applicability (IA)		1 0.	N	ĮO
	11 (111)		1-24		T-0
		Claims			ES
	Citations and explanations:			N	О
	Document 3: IP 3-80030	) A (NI:ma	pon Elanco Co., Ltd.), 15 March, 199	June, 1994 (07.06.94)	
	Document 5: JP, 2003-31 Document 6: WO, 2002-(07.11.02)	3120, A (	pon Elanco Co., Ltd.), 15 March, 1990 pon Elanco Co., Ltd.), 05 April, 1991 (CAPSUGEL JAPAN INC.), 06 Nov (Fancl Corp.), 06 November, 2003 (CAI (Hayashibara Biochemical Labs., (Warner-Lambert Co.), 12 February, (Shionogi Qualicana Co., Ltd.), 25	(05.04.91) rember, 2003 (06.11.03) (6.11.03) Inc.), 07 November 2002	

Document 13: JP, 2003-520225, A (Carlsbad Technology, Inc.), 02 July, 2003 (02.07.03)

#### <Description>

The subject matters of claims 1-24 do not appear to involve an inventive step in view of documents 1-13 cited in the ISR.

Documents 1-3 describe a hard film composition for capsules, containing gelatin as a main component and mixed with a polyethylene glycol. It is described (1) that even if filling with a hygroscopic medicinal agent is performed and the water content of a capsule film is reduced, the composition does not become brittle, and cracks, chips or the like are scarcely generated in the capsule, which can prevent the contained medicinal agent from leakage caused by the breakage of the capsule, and (2) that even if filling with special contents is performed, there is no delay of temporal disintegration, enough mechanical strength is provided, and disadvantages such as cracks rarely occur.

Documents 4-9 describe a capsule agent whose capsule base material is pullulan. It is described that the capsule agent is stable to discoloration with time and humidity change, has stable mechanical properties and stable solubility, and has an action such as inhibiting the generation of odor and oxidation of components with which the capsule agent is filled.

Furthermore, documents 10-13 describe that a proton pump inhibitor such as a lansoprazole and omeprazole is granulated and a capsule agent is filled with it.

And in pharmaceutical preparations, it is generally practiced that a person skilled in the art selects and decides, as required, the kind of drugs with which a capsule agent is filled, a particular dosage form of a preparation and the like according to the purpose. It is considered that a person

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

Box No. V	Descend state				PC1/JP	2005/003621
	citations and expl	nt under Rule 43b anations supportin	is.1(a)(i) with re; ig such statemen	gard to novelty, inv	rentive step or industr	rial applicability;
skilled in	n the art could h	ave easily arri	ved at the su	hight matters	f claims 1-24 by	making a drug
preparat	ion in which a c	anug such as a ansule contain	proton pung ing gelatin a	innibitor desc	ribed in docume	nts 10-13, a
componi	ent is filled with agent with filler.	me drug, and	further selec	ting and decid	ing, as required,	as a main a dosage form of a
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